

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P652004

Luminaire Tested: **GALN-SA7A-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22662.4 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

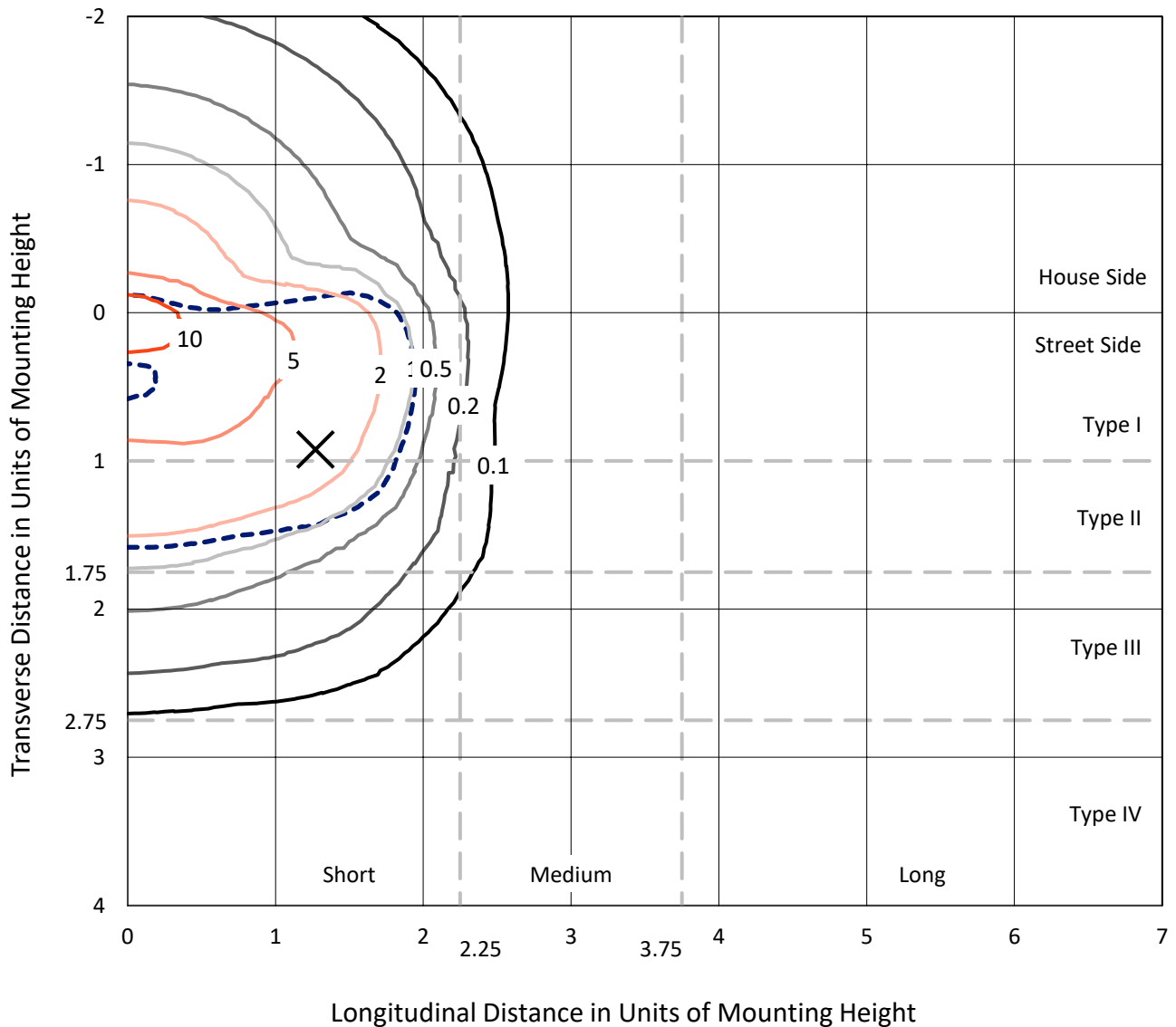
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

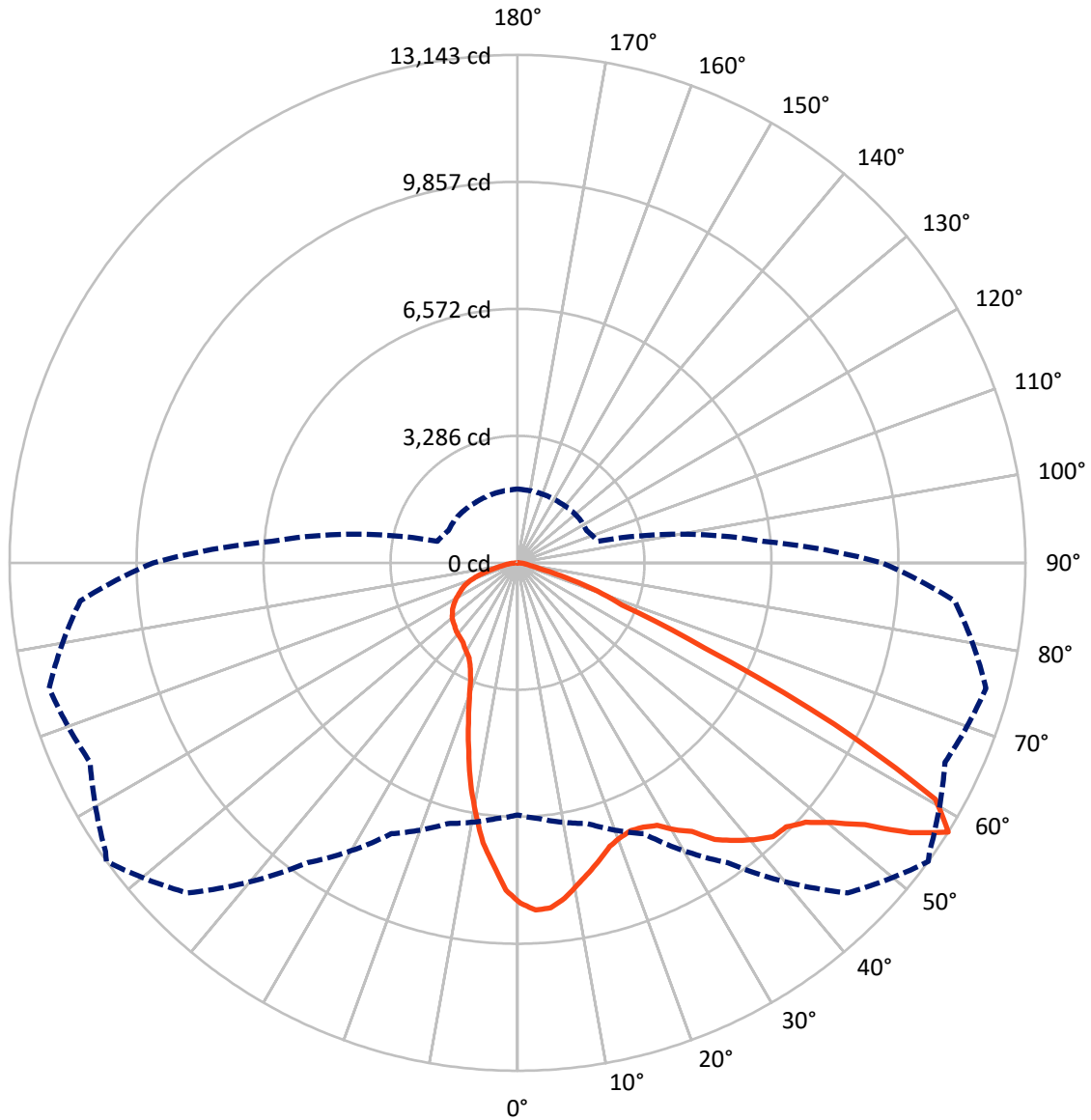
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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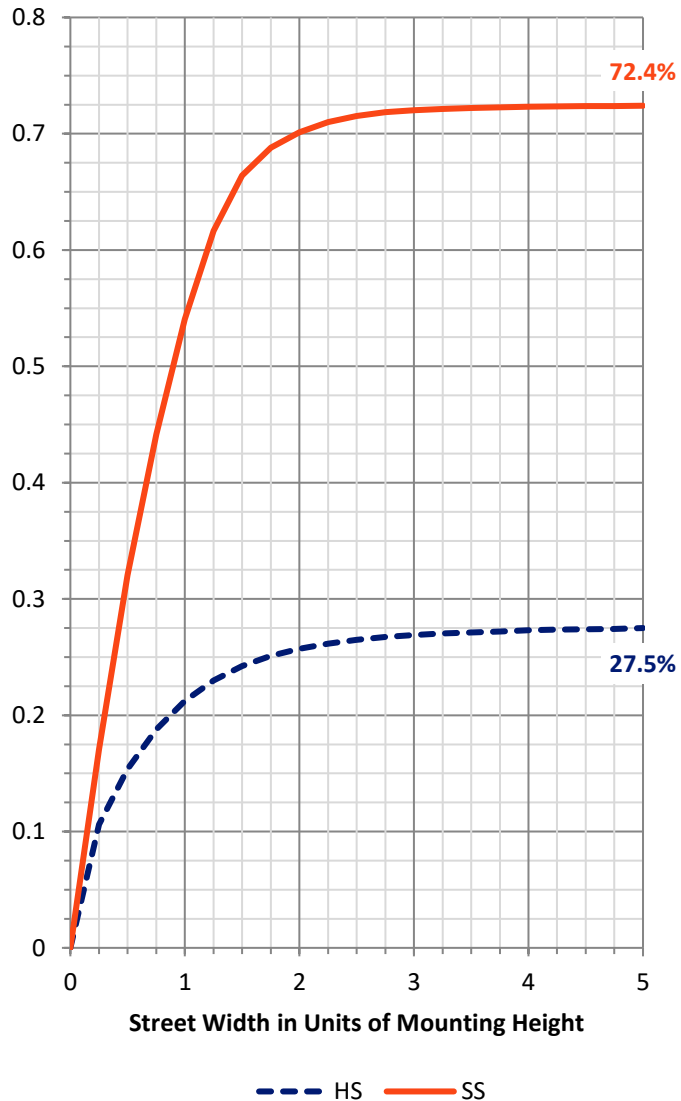
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6269.7	0.0	6269.7
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	16392.7	0.0	16392.7
	% Fixture	72.3	0.0	72.3
Total	Lumens	22662.4	0.0	22662.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.7	3.4
10°-20°	1758.9	7.8
20°-30°	2471.3	10.9
30°-40°	3454.8	15.2
40°-50°	4677.2	20.6
50°-60°	5697.0	25.1
60°-70°	2967.3	13.1
70°-80°	760.3	3.4
80°-90°	116.0	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	22662.4	100.0
0°-180°	22662.4	100.0

Coefficient of Utilization



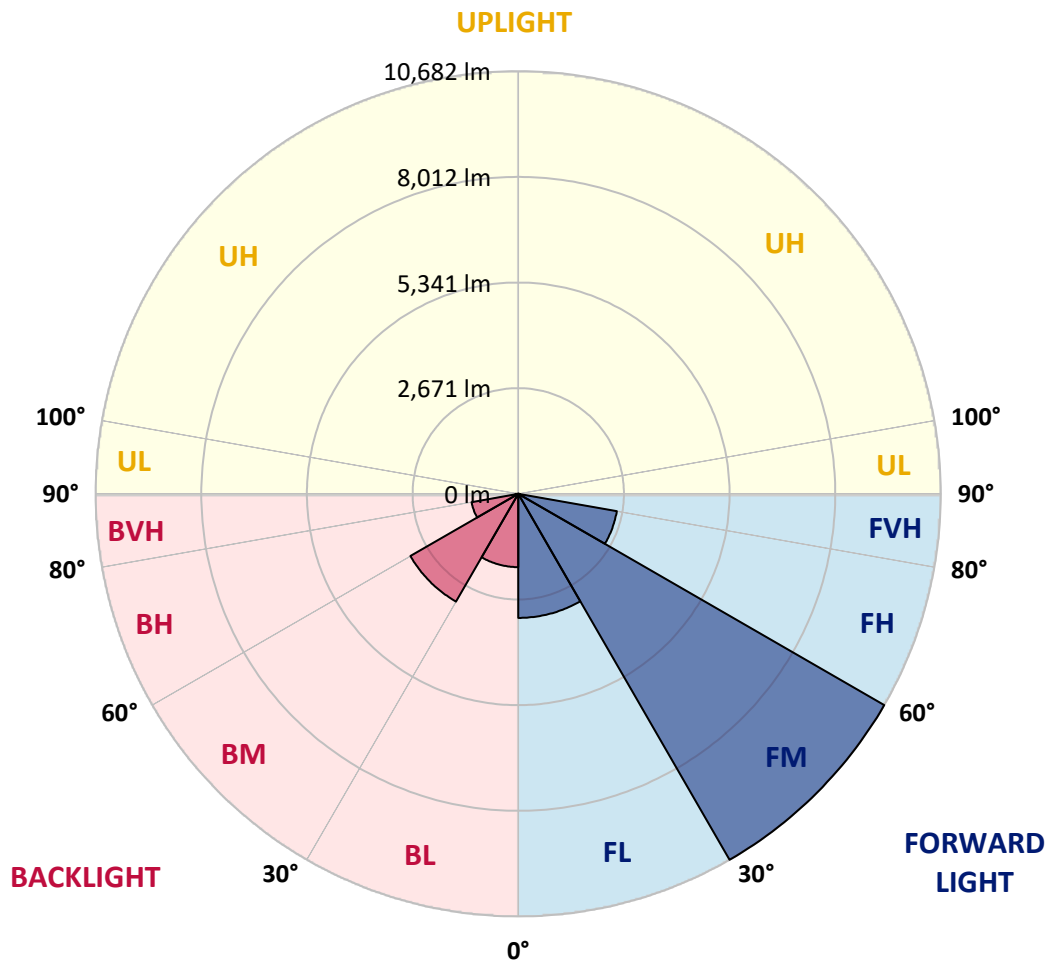
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3136.8	13.8			
FM (30°-60°)	10682.4	47.1			
FH (60°-80°)	2529.8	11.2			G2/5000
FVH (80°-90°)	43.8	0.2			G1/100
BL (0°-30°)	1853.0	8.2	B3/2500		
BM (30°-60°)	3146.7	13.9	B3/5000		
BH (60°-80°)	1197.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	72.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8808.6	8808.6	8808.6	8808.6	8808.6	8808.6	8808.6	8808.6	8808.6	8808.6	8808.6
2.5°	9059.2	9024.2	9030.0	9076.6	9018.4	8995.1	8995.1	8881.5	8890.2	8811.6	8791.1
5°	8849.4	8767.8	8823.2	8893.1	8904.8	8928.1	8965.9	8936.8	8855.2	8770.8	8633.9
7.5°	8301.8	8374.6	8395.0	8444.5	8549.4	8645.5	8764.9	8683.4	8680.5	8595.9	8514.5
10°	7821.1	7777.5	7888.2	7961.0	8135.7	8296.0	8479.5	8470.7	8514.5	8418.3	8278.5
12.5°	7343.4	7308.5	7360.9	7527.0	7771.6	8004.6	8223.1	8141.6	8374.6	8357.1	8057.1
15°	6836.6	6862.8	6938.5	7092.9	7413.3	7693.0	7969.7	7972.6	8179.4	8249.4	7847.4
17.5°	6481.3	6452.1	6548.2	6778.3	7063.8	7398.8	7713.4	7777.5	8095.0	8135.7	7783.3
20°	6216.2	6257.0	6382.2	6498.7	6827.8	7232.8	7588.1	7611.4	8077.5	8188.1	7681.4
22.5°	6152.1	6128.8	6169.5	6358.9	6629.8	7069.6	7521.1	7608.5	8074.6	8170.7	7489.1
25°	6085.1	6160.8	6157.9	6347.2	6545.3	6938.5	7576.5	7672.6	8228.9	8261.0	7515.3
27.5°	6236.5	6227.8	6309.4	6323.9	6568.6	6973.5	7693.0	7765.8	8485.3	8459.1	7535.7
30°	6388.0	6344.3	6393.8	6565.7	6679.3	7174.5	8013.4	8007.6	8817.4	8799.9	7599.8
32.5°	6574.4	6554.0	6586.0	6737.6	6929.8	7442.5	8284.3	8456.2	9155.3	9266.0	7821.1
35°	6609.4	6693.9	6769.6	6973.5	7247.3	7876.5	8794.1	8936.8	9545.6	9892.3	8243.5
37.5°	6830.8	6862.8	7040.5	7401.7	7652.2	8456.2	9117.4	9207.7	9900.9	10294.2	8689.2
40°	7066.7	7104.6	7372.5	7751.2	8095.0	8834.9	9420.4	9449.5	10014.5	10603.0	8980.5
42.5°	7387.1	7422.1	7687.2	8162.0	8622.2	9158.2	9688.3	9720.4	10005.8	10958.3	9443.7
45°	7719.2	7803.6	8115.3	8654.2	9067.9	9536.9	9749.5	9880.6	10087.4	11275.9	9819.4
47.5°	8185.3	8263.9	8520.3	9047.5	9531.1	9868.9	10032.0	10160.2	10282.6	11552.6	10061.1
50°	8680.5	8695.0	9006.7	9484.5	9839.8	10244.7	10559.3	10603.0	10538.9	11873.0	10471.9
52.5°	9044.5	9091.2	9332.9	9799.0	10329.2	10827.3	11258.4	11305.0	11179.7	11992.4	10611.7
55°	8441.6	8415.4	8808.6	9429.0	10658.3	11695.3	12321.6	12356.6	11645.8	12362.4	11069.1
57.5°	6524.9	6650.1	6985.2	7733.8	9469.8	12079.8	13143.1	13017.8	12205.1	12548.8	11360.3
60°	4742.2	4713.0	4937.3	5438.4	7136.6	10410.7	12426.4	12554.6	11747.8	11310.8	9367.9
62.5°	3862.5	3821.8	3839.2	3856.7	4605.3	6909.4	9198.9	9196.1	9047.5	8129.9	6318.1
65°	3087.6	3183.8	3192.5	3323.6	3419.8	4127.6	5330.6	5616.1	4890.8	4011.1	2910.0
67.5°	2327.4	2292.5	2409.0	2875.0	3055.6	2979.9	2910.0	2942.1	2091.5	1508.9	1421.5
70°	1372.0	1357.4	1497.2	2004.1	2516.8	2368.2	2193.4	2196.4	1436.1	1054.4	1173.9
72.5°	751.5	748.7	777.8	1016.6	1430.2	1485.5	1316.7	1357.4	856.4	853.4	917.5
75°	419.5	410.7	402.0	448.6	515.6	544.7	556.4	562.2	588.4	658.3	684.6
77.5°	154.4	148.5	148.5	171.9	218.5	273.8	346.7	352.5	416.5	477.7	503.9
80°	52.4	58.3	78.6	107.8	145.7	195.2	236.0	241.8	294.2	335.0	343.7
82.5°	32.0	35.0	52.4	75.8	104.9	136.9	174.8	177.7	218.5	244.6	256.3
85°	14.5	17.5	29.1	46.6	67.0	90.3	93.2	93.2	90.3	93.2	87.4
87.5°	0.0	0.0	5.8	5.8	5.8	8.7	11.7	8.7	14.5	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8808.6	8808.6	8808.6	8808.6	8808.6	8808.6	8808.6	8808.6	8808.6	8808.6	8808.6
2.5°	8730.0	8698.0	8598.9	8511.5	8485.3	8368.8	8196.9	8217.3	8092.0	8150.3	8089.2
5°	8610.6	8502.8	8249.4	8141.6	7859.0	7730.9	7643.4	7425.0	7323.0	7302.7	7215.3
7.5°	8304.7	8237.7	7920.2	7628.9	7328.9	7072.6	6743.4	6519.1	6358.9	6315.2	6187.0
10°	8062.9	7914.4	7474.6	7031.8	6603.5	6157.9	5729.6	5394.7	5231.6	5042.2	4978.1
12.5°	7824.1	7599.8	7005.5	6437.5	5884.1	5321.8	4803.4	4395.6	4040.2	3955.7	3926.6
15°	7675.5	7285.2	6586.0	5901.5	5115.0	4381.0	3862.5	3594.5	3376.0	3285.8	3349.9
17.5°	7480.4	7026.0	6184.1	5272.4	4407.3	3731.4	3297.4	3131.4	3052.7	3061.5	3035.3
20°	7235.6	6781.2	5656.9	4701.4	3775.2	3236.3	2988.7	2927.4	2939.1	2959.5	2950.7
22.5°	7060.9	6484.1	5275.3	4118.9	3262.5	2962.4	2860.5	2816.8	2854.6	2872.1	2857.5
25°	6926.9	6230.7	4812.1	3603.3	2965.4	2808.0	2761.4	2758.5	2816.8	2840.1	2825.5
27.5°	6804.5	5994.7	4351.8	3210.0	2767.2	2688.6	2674.0	2709.0	2746.9	2770.2	2790.5
30°	6731.7	5814.2	3920.7	2880.8	2668.2	2630.3	2604.2	2636.2	2656.6	2679.8	2668.2
32.5°	6801.7	5686.0	3504.2	2694.4	2586.7	2548.8	2583.7	2563.4	2598.4	2618.7	2586.7
35°	7020.1	5572.4	3207.1	2595.4	2493.5	2508.0	2513.8	2505.1	2519.6	2502.2	2540.1
37.5°	7235.6	5531.6	2933.3	2510.9	2449.7	2449.7	2443.9	2426.5	2455.6	2449.7	2467.2
40°	7509.5	5557.8	2700.3	2420.7	2409.0	2403.2	2379.9	2376.9	2365.3	2368.2	2374.1
42.5°	7748.3	5616.1	2566.3	2362.4	2371.1	2382.7	2339.1	2304.1	2318.6	2289.5	2289.5
45°	8001.8	5668.5	2446.8	2321.6	2312.8	2310.0	2275.0	2254.6	2242.9	2245.9	2272.0
47.5°	8400.8	5744.3	2356.6	2266.2	2272.0	2228.4	2219.7	2193.4	2205.1	2222.5	2225.5
50°	8683.4	5904.5	2286.6	2202.2	2222.5	2193.4	2141.0	2129.3	2129.3	2158.4	2152.6
52.5°	8881.5	6128.8	2219.7	2132.3	2141.0	2117.7	2100.2	2074.0	2056.5	2097.3	2117.7
55°	9487.3	6501.6	2202.2	2074.0	2071.0	2047.8	2015.7	1989.6	1980.8	1986.6	2027.4
57.5°	9429.0	6385.1	2146.8	1972.1	1966.2	1934.1	1902.1	1893.4	1890.5	1896.3	1908.0
60°	7655.1	4716.0	1916.7	1855.5	1846.8	1840.9	1808.9	1773.9	1756.5	1773.9	1759.4
62.5°	5065.5	3157.6	1689.5	1715.7	1721.5	1707.0	1654.5	1619.6	1625.4	1645.8	1613.7
65°	2487.6	1855.5	1532.2	1602.1	1607.9	1567.1	1517.6	1476.9	1456.4	1473.9	1459.4
67.5°	1421.5	1418.6	1404.0	1476.9	1473.9	1433.1	1354.5	1319.5	1284.6	1290.4	1281.7
70°	1205.9	1229.2	1258.4	1302.0	1299.2	1252.6	1159.3	1133.1	1083.6	1077.7	1063.2
72.5°	949.6	990.4	1054.4	1086.5	1060.3	1002.1	940.8	897.2	853.4	827.3	836.0
75°	704.9	763.2	798.1	818.5	777.8	745.7	696.2	643.8	591.3	568.0	559.3
77.5°	512.7	530.2	562.2	576.8	550.5	518.5	489.4	436.9	387.4	355.4	346.7
80°	358.3	370.0	393.3	393.3	393.3	378.7	340.8	288.4	256.3	227.2	221.4
82.5°	250.5	262.1	285.4	273.8	270.9	253.4	230.1	189.3	154.4	134.0	128.2
85°	87.4	96.1	116.5	139.9	148.5	145.7	131.1	104.9	81.6	67.0	61.1
87.5°	20.4	20.4	23.3	20.4	20.4	23.3	20.4	20.4	20.4	14.5	11.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)